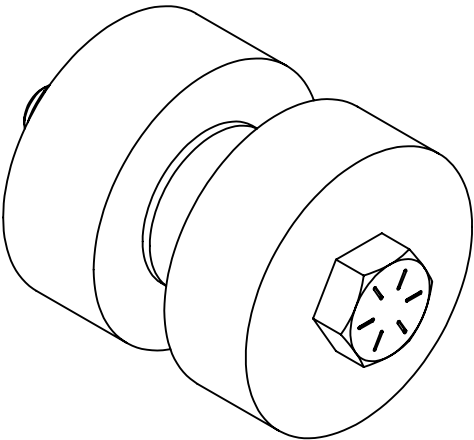
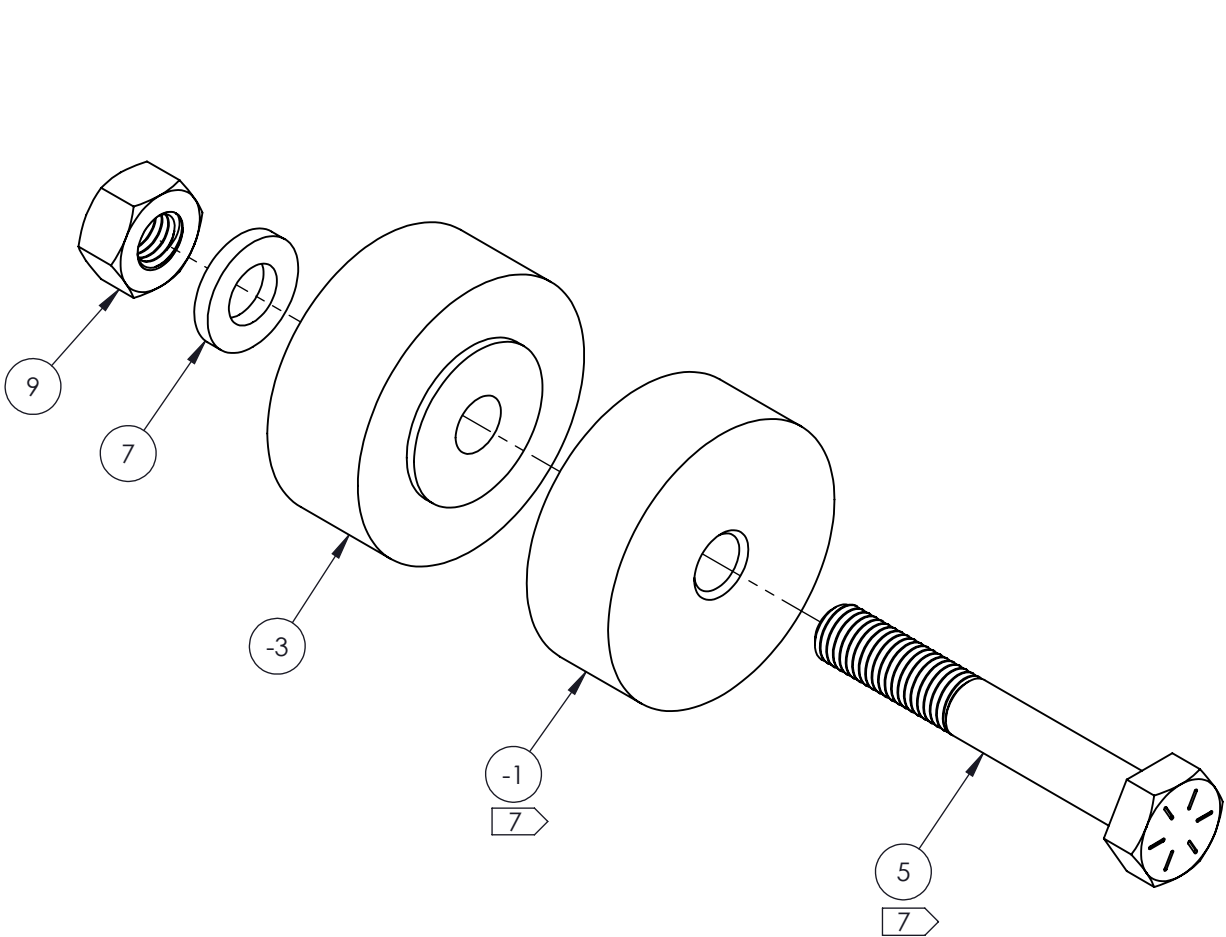



| ITEM # | QTY | PART #          | TITLE            |
|--------|-----|-----------------|------------------|
| -1     | 1   | RBWSI-HT-12AS-1 | TOP              |
| -3     | 1   | RBWSI-HT-12AS-3 | BASE             |
| 5      | 1   | AN4-16A         | HEX BOLT 1-4"-28 |
| 7      | 1   | NAS1149-F0463P  | WASHER 1/4"      |
| 9      | 1   | AN315-4R        | HEX NUT 1/4"-28  |

| REV. | DESCRIPTION  | ECN #   | DATE      | BY  | APPROVED |
|------|--|---------|-----------|-----|----------|
| 1    | CH'D TO THROUGH BOLT & NUT FOR TIGHTENING.   | -       | 4/12/2002 | -   | -        |
| 2    | ADDED NEW REV. TABLE & ZINC PLATE TO B/O INFORMATION.  | -       | 8/13/2008 | WP  | DW       |
| 3    | INSTALLED NEW FORMAT AND RE-ORGANIZED DRAWINGS.  | -       | 8/27/2008 | WP  | RW       |
| 3A   | -1 & -3 CH'D BOM DIAMETER WAS Ø1-1/2 IS Ø1.25. ADDED P/N'S FOR WASHER & NUT IN BOM.  | -       | 6/23/2011 | RJC | DW       |
| 4    | CH'D T/N WAS WSI-HT-12AS IS RBWSI-HT-12AS. -1 DELETED REDBARN LOGO FROM TOOL CH'D ENGRAVE NOTE. ADDED - NUMBERS TO BOM -5, -7, -9. SEPARATED ALL PARTS TO SEPARATE SHEETS. | 15-0080 | 4/16/2015 | RJC | RW       |
| E    | NOTE 7 & 8 ADDED, TEMPLATE UPDATED   | 18-506  | 18.1.12   | VM  | ML       |

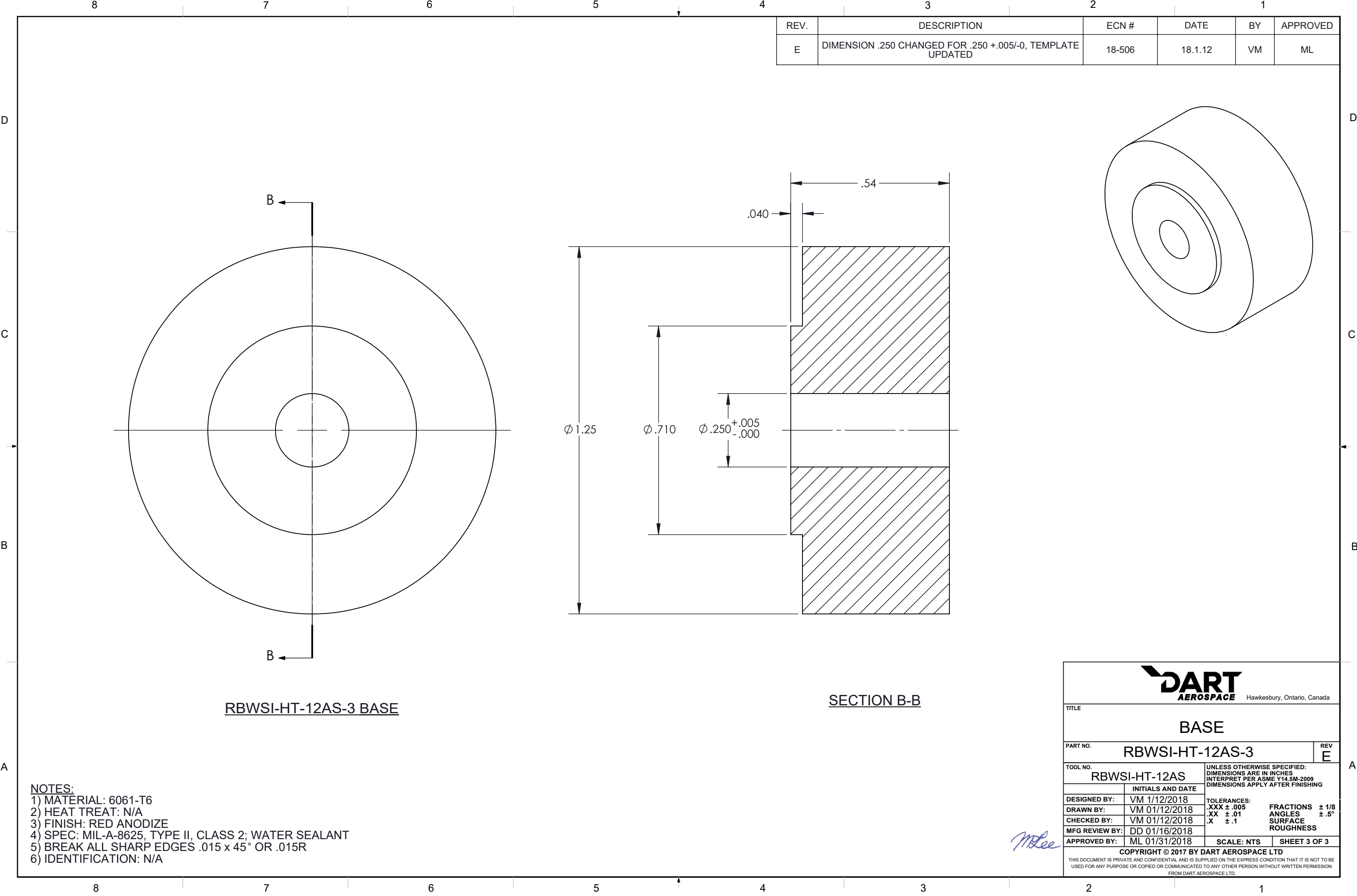


RBWSI-HT-12AS GROMMET INSTALLATION TOOL

- NOTES:
- 1) MATERIAL: N/A
  - 2) HEAT TREAT: N/A
  - 3) FINISH: N/A
  - 4) SPEC: N/A
  - 5) BREAK ALL SHARP EDGES: N/A
  - 6) IDENTIFICATION: N/A
  - 7) APPLY LOCTITE 263 ONTO MATING SURFACES OF -5 AND -1 THEN PRESS FIT -5 INTO -1


|  |  |  |  |
|--|--|--|--|
|  <b>DART</b><br>AEROSPACE   |  |  |  |
| Hawkesbury, Ontario, Canada  |  |  |  |
| TITLE  |  |  |  |
| GROMMET INSTALLATION TOOL  |  |  |  |
| PART NO.   |  |  |  |
| RBWSI-HT-12AS  |  |  |  |
| REV  |  |  |  |
| E  |  |  |  |
| TOOL NO.   |  |  |  |
| RBWSI-HT-12AS  |  |  |  |
| INITIALS AND DATE  |  |  |  |
| DESIGNED BY:   |  |  |  |
| VM 1/12/2018   |  |  |  |
| DRAWN BY:  |  |  |  |
| VM 01/12/2018  |  |  |  |
| CHECKED BY:  |  |  |  |
| VM 01/12/2018  |  |  |  |
| MFG REVIEW BY:   |  |  |  |
| DD 01/16/2018  |  |  |  |
| APPROVED BY:   |  |  |  |
| ML 01/31/2018  |  |  |  |
| UNLESS OTHERWISE SPECIFIED:<br>DIMENSIONS ARE IN INCHES<br>INTERPRET PER ASME Y14.5M-2009<br>DIMENSIONS APPLY AFTER FINISHING  |  |  |  |
| TOLERANCES:  |  |  |  |
| XXX ± .005   |  |  |  |
| XX ± .01   |  |  |  |
| X ± .1   |  |  |  |
| FRACTIONS ± 1/8  |  |  |  |
| ANGLES ± .5°   |  |  |  |
| SURFACE ROUGHNESS  |  |  |  |
| SCALE: NTS   |  |  |  |
| SHEET 1 OF 3   |  |  |  |
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| REV. | DESCRIPTION  | ECN #  | DATE    | BY | APPROVED |
|------|--|--------|---------|----|----------|
| E    | DIMENSION .250 CHANGED FOR .250 +.005/-0, TEMPLATE UPDATED | 18-506 | 18.1.12 | VM | ML       |

- NOTES:
- 1) MATERIAL: 6061-T6
  - 2) HEAT TREAT: N/A
  - 3) FINISH: RED ANODIZE
  - 4) SPEC: MIL-A-8625, TYPE II, CLASS 2; WATER SEALANT
  - 5) BREAK ALL SHARP EDGES .015 x 45° OR .015R
  - 6) IDENTIFICATION: N/A

|   |                   |   |                 |
|---|-------------------|---|-----------------|
|  <b>DART</b><br>AEROSPACE Hawkesbury, Ontario, Canada  |                   |   |                 |
| TITLE<br><b>BASE</b>  |                   |   |                 |
| PART NO.<br><b>RBWSI-HT-12AS-3</b>  |                   |   | REV<br><b>E</b> |
| TOOL NO.<br><b>RBWSI-HT-12AS</b>  |                   | UNLESS OTHERWISE SPECIFIED:<br>DIMENSIONS ARE IN INCHES<br>INTERPRET PER ASME Y14.5M-2009<br>DIMENSIONS APPLY AFTER FINISHING |                 |
|   | INITIALS AND DATE |   |                 |
| DESIGNED BY:  | VM 1/12/2018      | TOLERANCES:<br>XXX ± .005 FRACTIONS ± 1/8<br>XX ± .01 ANGLES ± .5°<br>.X ± .1 SURFACE ROUGHNESS                               |                 |
| DRAWN BY:   | VM 01/12/2018     |   |                 |
| CHECKED BY:   | VM 01/12/2018     |   |                 |
| MFG REVIEW BY:  | DD 01/16/2018     |   |                 |
| APPROVED BY:  | ML 01/31/2018     | SCALE: NTS  | SHEET 3 OF 3    |
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